

Software Requirements Specification

for

Version 1.0

Healthy vet

Prepared by

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1 Introduction

1.1 Document Purpose

The purpose of this software is a web application designed to manage a clinic for animals. The user interface is different according to either doctors or pet owners/clients.

The pet owner/client can login into the application, to add an appointment, to delete it and also can add a feedback.

The doctor can login into the application, to add an appointment for client, to add clinic services like vaccination etc, price for it;

The application contains some general pages for all users like contact, about the clinic and of course a welcome page.

1.2 Product Scope

- ▶ The reason for starting this website is to help all pets in our area live happy, healthy lives. All of us at Healthy vet Clinic love animals and are trained and ready to take care of any problem that comes along. We believe that the focus of veterinary service and medicine is the bond between our clients and their pets. Our objectives of this business are:
 - To provide care and protection from disease
 - Help all of our patients live a long and healthy life
 - To provide any advice that a client may have about their pet
 - To provide an affordable full time medical service to all who are in need
 - To provide more than medical help for pets such as boarding, tags, toys, and supplies
- ▶ With my application help, the clinic, its doctors and its staff embrace apps for everything from marketing to communicating with clients and informing them about the dangers of diseases to looking up patient records and performing basic office tasks.
- ▶ The Vet App also enables clients to request appointments, check on contact(phone number, email etc), get emergency instructions and find links to a clinic's website and to another.
- ▶ The system has several modules. Major modules of the app are as follows:
 - ▶ **Home page:** Welcome for anyone who access the site(doctors/users)
 - ▶ **Service:** Add, Modify or Delete service information- this page is seen by doctors

- ▶ **Appointment** : This page is seen by doctors and the users that sign into our app. The pet owner can make an appointment and if he wants to delete it, he needs to confirm before deleting it.
- ▶ **About** : Information and pictures about our clinic and the user can add a comment only if they are logged in and can be seen by doctors and another users logged in.

2.Overall Description

2.1 Product Perspective

The system will consist of one part: web portal. The web portal will be used for managing a clinic for animals. This app allows pet owners to login, make an appointment, delete it and add a feedback.

2.2 Product Function

The data system consists of: a database system used for storage (details about pets, the appointments, services and feedbacks will be stored in the database; also the users accounts – doctor and pet owner will be stored in it.)

The app provides different functionalities based on the type of user:

- Login/register
- View account details
- Manage account details (change password, email, delete account)
- Make an appointment
- Give feedback

3.Specific Requirements

This section contains all of the functional and quality requirements of the system. It gives a detailed description of the system and all its features

3.2 Functional Requirements

3.2.1 Healthy Vet -The user

3.2.1.1 Functional requirement 1.1

ID: FR1

TITLE: User registration

DESC: Given that a user has entered the web application and wants to use it they have to provide name , password and email address.

RAT: In order for a user to register.

DEP: None

3.2.1.2 Functional requirement 1.2

ID: FR2

TITLE: Pet owner login

DESC: Given that a pet owner has entered the web application and wants to make an appointment or delete one, they have to provide email and password

RAT: In order for the user to login

DEP: FR1

3.2.1.3 Functional requirement 1.3

ID: FR3

TITLE: Pet owner makes an appointment

DESC: Given that a pet owner has entered the web application and wants to make an appointment they have to login and go to the appointment page.

RAT: In order for the user to make an appointment.

DEP: FR2

3.2.1.4 Functional requirement 1.4

ID: FR4

TITLE: Pet owner deletes or modifies an appointment

DESC: Given that a user has entered the web application and wants to make an appointment they have to login and go to the appointment page, they also have made an appointment already in order to delete it. To delete the appointment, the user needs to confirm if he wants to cancel the appointment.

RAT: In order for the user to delete an appointment

DEP: FR2,FR3.

3.2.1.5 Functional requirement 1.5

ID: FR5

TITLE: Pet owner adds a feedback

DESC: Given that a user has entered the web application and wants to make review they have to login and go to the about page and add a mini feedback to review the website.

RAT: In order for the user to add a feedback

DEP: FR1,FR2.

3.2.2 Healthy Vet -The doctor

3.2.2.1 Functional requirement 1.1

ID: FR1

TITLE: Doctor registration

DESC: Given that a doctor has entered the web application and wants to use it they have to provide name , password and email address.

RAT: In order for a doctor to register.

DEP: None

3.2.2.2 Functional requirement 1.2

ID: FR2

TITLE: Doctor login

DESC: Given that a doctor has entered the web application and wants to make an appointment or delete one, they have to provide email and password

RAT: In order for the doctor to login

DEP: FR1

3.2.2.3 Functional requirement 1.3

ID: FR3

TITLE: Doctor approves the petowner's(user) appointment

DESC: Given that a doctor has entered the web application and wants to see what appointment the users made, they have to login and go to the appointment page. They add the appointment for the user.

RAT: In order for the doctor to make an appointment.

DEP: FR2

3.2.2.4 Functional requirement 1.4

ID: FR4

TITLE: Doctor deleting or modify an appointment

DESC: Given that a doctor has entered the web application and wants to make an appointment they have to login and go to the appointment page, they also have made an appointment already in order to delete it if the petowner changes his mind.

RAT: In order for the doctor to delete an appointment.

DEP: FR1, FR2.

3.2.1.4 Functional requirement 1.4

ID: FR4

TITLE: Doctor adds/deletes/modifiies a service

DESC: Given that a doctor has entered the web application and wants add a service for users(petowners/clients) they have to login and go to the service page, they also have add a service already in order to delete it if the doctor changes his mind.

RAT: In order for the doctor to delete the service or modify it.

DEP:FR1,FR2.

3.4 Design Constraints

This section includes the design constraints on the software caused by the hardware.

3.4.1 Hard drive space

ID: QR6

TAG: HardDriveSpace

GIST: Hard drive space.

SCALE: The application's need of hard drive space.

METER: MB.

MUST: No more than 20 MB.

PLAN: No more than 15 MB.

WISH: No more than 10 MB.

MB: DEFINED: Megabyte

3.4.2 Application memory usage

ID: QR7

TAG: ApplicationMemoryUsage

GIST: The amount of Operate System memory occupied by the application's web browser and app managing server and database server.

SCALE: MB.

METER: Observations done from the performance log during testing

MUST: No more than 20 MB.

PLAN: No more than 16 MB

WISH: No more than 10 MB Operate System:

DEFINED: The desktop operating system which the application is running on.

MB: DEFINED: Megabyte

3.5 Software system attributes

The requirements in this section specify the required reliability, availability, security and maintainability of the software system.

3.5.1 Reliability

ID: QR8

TAG: SystemReliability

GIST: The reliability of the system.

SCALE: The reliability that the system gives the right result on a search.

MUST: More than 90% of the searches.

PLAN: More than 97% of the searches.

WISH: 100% of the searches.

3.5.2 Availability

ID: QR9

TAG: SystemAvailability

GIST: The availability of the system when it is used.

SCALE: The average system availability (not considering network failing).

MUST: More than 85% of the time.

PLAN: More than 90% of the time.

WISH: 100% of the time.

ID: QR10

TITLE: Internet Connection

DESC: The web application should be connected to the Internet.

RAT: In order for the application to communicate with the database.

DEP: none

3.5.3 Security

ID: QR11

TAG: CommunicationSecurity

GIST: Security of the communication between the system and server.

SCALE: The messages should be encrypted for log-in communications, so others cannot get user-name and password from those messages.

MUST: 100% of the Communication Messages in the communication of a log-in session should be encrypted.

Communication Messages: Defined: Every exchanged of information between client and server.

ID: QR12

TAG: AccountSecurity

GIST: Security of accounts.

SCALE: If an admin tries to log in to the web portal with a wrong password (3 attempts) then the admin should not be logged in. The admin should be notified about log-in failure.

MUST: 100% of the time.

ID: QR13

TAG: UserCreateAccountSecurity

GIST: The security of creating account for users of the system.

SCALE: If a user wants to create an account and the desired user name is occupied, the user should be asked to choose a different user name.

MUST: 100% of the time

3.5.4 Maintainability

ID: QR14

TITLE: Application extendibility

DESC: The web application should be easy to extend. The code should be written in a way that it favors implementation of new functions.

RAT: In order for future functions to be implemented easily to the application.

DEP: none

ID: QR15

TITLE: Application testability

DESC: Test environments should be built for the web application to allow testing of the applications different features.

RAT: In order to test the application.

DEP: none

3.5.5 Portability

ID: QR16

TITLE: Web application portability

DESC: The application should be portable with Microsoft **Internet** Explorer 11.0 , Google Chrome.

RAT: The adaptable browser for the web application to run on.

DEP: none